

QY 421 LGQHPDYVTEENLIRMGVAGLVVLVGLLFEAQSORSLODAG 465
 Db 421 LGQHPDYVTEENLIRMGVAGLVVLVGLLFEAQSORSLODAG 465

RESULT 2

Killer cell inhibitory receptor p91B precursor - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 05-Nov-1999
 C/Accession: JCS895
 R/Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya
 J. Biochem. 123, 358-368, 1998
 A/Title: Genomic structures and chromosomal location of p91, a novel murine regulatory
 A/Reference number: JCS894, MUID:98218758, PMID:9538215
 A/Accession: JCS895
 A/Status: nucleic acid sequence not shown
 A/Molecule type: mRNA
 A/Residues: 1-680 <YAM>
 A/Cross-references: GB:AF041035; NID:92791691; PIDN:AA96927.1; PID:92791692
 C/Comment: This protein function as inhibitory cell-surface molecule against cell activa
 C/Genetics:
 A/Map position: 7
 F.1-23/Domain: signal sequence #status predicted <SIG>
 F.24-118, 119-220, 221-315, 316-418, 419-517, 518-618/Domain: extracellular Ig-like #status
 F.636-674/Domain: transmembrane #status predicted <TM>
 F.675-680/Domain: cytoplasmic #status predicted <CYT>

Query Match

Best Local Similarity 39.3%; Score 1080.5; DB 2; Length 680;
 Matches 230; Conservative 63; Mismatches 151; Indels 17; Gaps 3;

QY 23 AGHLPEPTLMAEPGSVITIQSPVTLRCQGSQAEBYHLYR-NKSASWRRIOEPGNQ 81
 Db 220 SGNLQKPTIKAPPSVITSKRAMTWCGNDAEVYFLHNSQSTQSTQTLQCGNKGK 279
 QY 82 FPIPSITWEHAGRYHCQYSHNSSEYSDPLELVTG--AYSKPLSLPSPVYTLGNNV 139
 Db 280 FPIPSVTOQAHGQYRCYCSAGMSQPSDTLELVVTGYEYNEPRLSLPSPVVRPGSNM 339
 QY 140 TLQCVSOVAFDGLTCKEGDEHPORLNSHANGSWALFVSGVPSPSRMSYRCAYD 199
 Db 340 TLHCAQGHYKFLITKEDKKFANALDTEHSSRSQYALFLIGPTPTHTGTRCYGY 399
 QY 200 SNSPYWLSPLSDLELIVPGVSKKPSLVQPGPMVAPGESLTQCVSDVGYDRVLYKEG 259
 Db 400 KNTQMLSVSPNLDQIILISGLSKPSLTHQGHILDPMTTLTQCFDMNDRPALHKG 459
 QY 260 ERDLPQRPQWPOAGLSQANFTLGPVSPSHGQYRCYSAHNLSEMSAPSPDILITGQ 319
 Db 460 GADIMQSSQOTDIDGFSVANFTLGYVSSSTGQYRCYGANHLSSEMSAPSPDILITGQ 519
 QY 320 FYDRPSLVQPVPTVAVGKNVTLICQSGQFHTLTKEGAGHPPLHLRSEHOAQONQAE 379
 Db 520 LPLPLSLVQPNHTVHSGEIVSLCWSMDSDVDTFLSKESGAQOPLTLKSKSHDQSGAE 579
 QY 380 FRMGVPTSAHVGYRCYSSLSNPYLLSLPSDPLELVASLQ-----HP 425
 Db 580 FMSAVTSHLSGTYRCYGAQDSSFYLLSSASAVELTVSGTSSSMPPRRNPPIPTEN 639
 QY 426 ODVTENLIRMGVAGLVVLVGLLFEAQSORSLODAGS 466
 Db 640 QDHTMENLIRMGVAVVFLVILATEAMRSHRQTHCAQGN 680

RESULT 3

JCS894
 Killer cell inhibitory receptor p91A precursor - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 17-Mar-1999
 C/Accession: JCS894
 R/Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Ohya
 J. Biochem. 123, 358-368, 1998

A/Title: Genomic structures and chromosomal location of p91, a novel murine regulator
 A/Reference number: JCS894, MUID:98218758, PMID:9538215
 A/Accession: JCS894
 A/Status: nucleic acid sequence not shown

A/Molecule type: DNA

A/Residues: 1-841 <YAM>
 A/Cross-references: GB:AF040946

C/Comment: This protein function as inhibitory cell-surface molecule against cell acti

C/Genetics:
 A/Map position: 7

F.1-23/Domain: signal sequence #status predicted <SIG>
 F.24-841/Product: Killer cell inhibitory receptor p91A #status predicted <MAT>
 F.24-118, 119-220, 221-315, 316-418, 419-517, 518-618/Domain: extracellular Ig-like #stati
 F.636-674/Domain: transmembrane #status predicted <TM>
 F.675-765/Domain: cytoplasmic #status predicted <CYT>

Query Match

Best Local Similarity 37.2%; Score 1023.5; DB 2; Length 841;
 Matches 227; Conservative 73; Mismatches 154; Indels 41; Gaps 9;

QY 23 AGHLPEPTLMAEPGSVITIQSPVTLRCQGSQAEBYHLYR-NKSASWRRIOEPGNQ 81
 Db 220 SGNLQKPTIKAPPSVITSKRAMTWCGNDAEVYFLHNSQSTQSTQTLQCGNKGK 279
 QY 82 FPIPSITWEHAGRYHCQYSHNSSEYSDPLELVTGYS--KPTLSLSPSPVYTLGNNV 139
 Db 280 FPIPSVTOQAHGQYRCYCSAGMSQPSDTLELVVTGYEYNEPRLSLPSPVVRPGSNM 339
 QY 140 TLQCVSOVAFDGLTCKE---GEDEHPORLNSHANGSWALFVSGVPSPSRMSYRC 195
 Db 340 TLHCAQGHYKFLITKEDKKFNSLDTEHSSRSQYR---ALFIPPTPTHTGTRC 395
 QY 196 YAYSNSPYWLSPLSDLELIVPGVSKKPSLVQPGPMVAPGESLTQCVSDVGYDRFVL 255
 Db 396 YGFKNAPQMLSVSDLDQIILISGLSKPSLTHQGHILDPGMLTLTQCVSDIYDRPAL 455
 QY 256 YKEGERDLPQRPQWPOAGLSQANFTLGPVSPSHGQYRCYSAHNLSEMSAPSPDILIT 315
 Db 456 HKVQADIMQSSQOTDIDGFSVANFTLGYVSSSTGQYRCYGANHLSSEMSAPSPDILIT 515
 QY 316 ITGQFDRPDLVQPVPTVAVGKNVTLICQSGQFHTLTKEGAGHPPLHLRSEHOAQ 375
 Db 516 ITGQPLPLSLVQPNHTVHSGEIVSLCWSMDSDVDTFLSKESGAQOPLTLKSKSHDQ 575
 QY 376 NOAEPFMGPVTSAHVGYRCYSSLSNPYLLSLPSDPLELVASL----- 421
 Db 576 SOAEPMSAVTSHLSGTYRCYGAQDSSFYLLSSASAVELTVSGTSSSMPPRRNPPIPTEN 635
 QY 422 GQHPDYVTEENLIRMGVAGLVVLVGLLFEAQSORSLODAGS 466
 Db 636 GLH--MYLKALIGVAVAILFLIFILIRRRHGRKRYQKEDQLSSGAEPIIT 692
 QY 469 QRGQCTLQCGASGT 493
 Db 693 RKGELOKRENPAAAT 707

RESULT 4

JCS896
 Killer cell inhibitory receptor p91C precursor - mouse
 C/Species: Mus musculus (house mouse)
 C/Date: 18-Mar-1998 #sequence_revision 18-Mar-1998 #text_change 05-Nov-1999
 C/Accession: JCS896
 R/Yamashita, Y.; Fukuta, D.; Tsuji, A.; Nagabukuro, A.; Matsuda, Y.; Nishikawa, Y.; Oh
 J. Biochem. 123, 358-368, 1998
 A/Title: Genomic structures and chromosomal location of p91, a novel murine regulatory
 A/Reference number: JCS894, MUID:98218758, PMID:9538215
 A/Accession: JCS896
 A/Status: nucleic acid sequence not shown
 A/Molecule type: mRNA
 A/Residues: 1-635 <YAM>
 A/Cross-references: GB:AF041036; NID:92791693; PIDN:AA96928.1; PID:92791694
 C/Comment: This protein function as inhibitory cell-surface molecule against cell acti

PN W09848017-A1.
 XX
 PD 29-OCT-1998.
 XX
 PF 23-APR-1998; 98WO-US008244.
 XX
 PR 24-APR-1997; 97US-00842248.
 XX
 PA (IMMV) IMMUNEX CORP.
 XX
 PI Cosman DJ;
 XX
 DR WPI; 1998-609990/51.
 DR N-PSDB; AAV69332.
 XX
 PT Leukocyte immunoglobulin-like receptor, LIR, polypeptides - useful, e.g.
 PT for treating autoimmune diseases or disease states associated with
 PT suppressed immune function.
 XX
 PS Claim 4; Page 64-65; 112pp; English.
 XX
 CC This sequence represents a novel leukocyte immunoglobulin-like receptor
 CC (LIR) polypeptide LIR-pmb25. This sequence can be administered
 CC therapeutically to treat disorders associated with insufficient/defective
 CC amounts of LIR polypeptide. LIR-p3g2 and certain other LIR family members
 CC contain cytoplasmic immunoreceptor tyrosine-based inhibitory motifs
 CC (ITIMs). Whilst other LIR family members lack ITIMs. By analogy with the
 CC having ITIMs are inhibitory receptors mediating negative signalling,
 CC whilst those lacking ITIMs are activatory receptors. Failure of a
 CC receptor that mediates negative signalling could result in autoimmune
 CC diseases, whilst failure of a receptor mediating activatory signalling
 CC could result in suppressed immune function. They are also useful to
 CC produce probes for detecting LIR nucleic acids or isolating LIR DNA from
 CC other species
 XX
 SQ Sequence 439 AA;
 Query Match 63.7%; Score 1754; DB 2; Length 439;
 Best Local Similarity 81.3%; Pred. No. 5,4e-126;
 Matches 343; Conservative 18; Mismatches 59; Indels 2; Gaps 2;
 QY 1 MPTILTVLIGLGLSGPRTHVQAGHLPKPTLMAEPGSLVITQSGPYTLRCQSGSLQAEHYL 60
 Db 1 MPTILTVLIGLGLSLDPRTHVQAGPLPKPTLMAEPGSLVITQSGPYTLRCQSGSLQAEHYL 60
 QY 61 YRENKASAVWRRI-QEPGKNGQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVVTG 118
 Db 61 YREKKTALMTIRIPQELVKKQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVVTG 120
 QY 119 AYSKPTLSALSPSVYTLGNAVTLQCVSAVAFDGFILCKEGEDHPQRLNSHARGSWMA 178
 Db 121 AYSKPTLSALSPSVYTLGNAVTLQCVSAVAFDGFILCKEGEDHPQRLNSHARGSSRA 180
 QY 179 IFSVGPVSPSRMSRYCAVYDSNSPYWLSLPSDLLELVPGVSKKSLSVQPGPVVAPGE 238
 Db 181 IFSVGPVSPSRMSRYCAVYDSNSPYWLSLPSDLLELVPGVSKKSLSVQPGPVVAPGE 240
 QY 239 SLTLQCVSDVGYDFVLYKEGERDFLQRPQAPAGLSQANFTLGVPSPSHGQYRCYSA 298
 Db 241 KLTFOCGSDAGYDFVLYKEGERDFLQRPQAPAGLSQANFTLGVPSPSHGQYRCYSA 300
 QY 299 NHLSSWMSAPSDPLDILLITGQFYDRSLSVQPYTVAPGNAVTLICQSHGQFHTTLLTKE 358
 Db 301 NHLSSWMSAPSDPLDILLITGQFYDRSLSVQPYTVAPGNAVTLICQSHGQFHTTLLTKE 360
 QY 359 GAGHPPLHRSHEHQAQONQAEFRMGVPTSAHGYTCVSSLSNPPLSLSPDPLELVYS 418
 Db 361 GAADPPLHRSKRGKHQYAEFRMGVPTSAHGYTCVSSLSNPPLSLSPDPLELVYS 420
 QY 419 AS 420
 Db 421 GA 422

RESULT 14
 AAM53464
 ID AAM53464 standard; protein; 439 AA.
 XX
 AC AAM53464;
 XX
 DT 17-JUL-1998 (first entry)
 XX
 DE Human gp49 HM43 polypeptide.
 XX
 XX Human; gp49; HM18; HM43; immunoglobulin; immune response; mast cell;
 XX bone marrow; cell-surface member; FcER1.
 XX
 OS Homo sapiens.
 PN W09809638-A1.
 XX
 PD 12-MAR-1998.
 XX
 PF 05-SEP-1997; 97WO-US015586.
 XX
 PR 06-SEP-1996; 96US-0025846P.
 XX
 PA (BGMH) BRIGHAM & WOMENS HOSPITAL.
 PI Katz HR, Arm JP, Castells MC, Austen KF;
 XX
 DR WPI; 1998-193318/17.
 DR N-PSDB; AAV23274.
 XX
 PT Cell-surface member of immunoglobulin super-family, human gp49 - useful
 PT to treat undesired immune responses, especially mast cell-related
 PT diseases.
 XX
 PS Claim 5; Fig 2A-B; 62pp; English.
 XX
 CC The present sequence represents human gp49 polypeptide HM43. The present
 CC invention also describes: (1) a fusion polypeptide comprising a human
 CC gp49 component and FcER1 or a detectable marker; (2) a recombinant
 CC nucleic acid encoding human gp49 or a human gp49-FcER1 fusion as above;
 CC (3) a cell or vector comprising the recombinant nucleic acid as in (2),
 CC and (4) an antibody which selectively binds to gp49. Mammalian gp49 or
 CC its related DNA can be used to treat an undesired immune response,
 CC especially a mast cell-related disease
 XX
 SQ Sequence 439 AA;
 Query Match 63.7%; Score 1754; DB 2; Length 439;
 Best Local Similarity 81.3%; Pred. No. 5,4e-126;
 Matches 343; Conservative 18; Mismatches 59; Indels 2; Gaps 2;
 QY 1 MPTILTVLIGLGLSGPRTHVQAGHLPKPTLMAEPGSLVITQSGPYTLRCQSGSLQAEHYL 60
 Db 1 MPTILTVLIGLGLSLDPRTHVQAGPLPKPTLMAEPGSLVITQSGPYTLRCQSGSLQAEHYL 60
 QY 61 YRENKASAVWRRI-QEPGKNGQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVVTG 118
 Db 61 YREKKTALMTIRIPQELVKKQFPPIPSITWEHAGRYHCQYSHNHS-SEYSDPLELVVTG 120
 QY 119 AYSKPTLSALSPSVYTLGNAVTLQCVSAVAFDGFILCKEGEDHPQRLNSHARGSWMA 178
 Db 121 AYSKPTLSALSPSVYTLGNAVTLQCVSAVAFDGFILCKEGEDHPQRLNSHARGSSRA 180
 QY 179 IFSVGPVSPSRMSRYCAVYDSNSPYWLSLPSDLLELVPGVSKKSLSVQPGPVVAPGE 238
 Db 181 IFSVGPVSPSRMSRYCAVYDSNSPYWLSLPSDLLELVPGVSKKSLSVQPGPVVAPGE 240
 QY 239 SLTLQCVSDVGYDFVLYKEGERDFLQRPQAPAGLSQANFTLGVPSPSHGQYRCYSA 298
 Db 241 KLTFOCGSDAGYDFVLYKEGERDFLQRPQAPAGLSQANFTLGVPSPSHGQYRCYSA 300